

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number  
WO 2005/080926 A1

(51) International Patent Classification<sup>7</sup>: G01F 1/86, 15/04

(21) International Application Number:  
PCT/DK2005/000118

(22) International Filing Date: 22 February 2005 (22.02.2005)

(25) Filing Language: Danish

(26) Publication Language: English

(30) Priority Data:  
PA 2004 00275 23 February 2004 (23.02.2004) DK

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

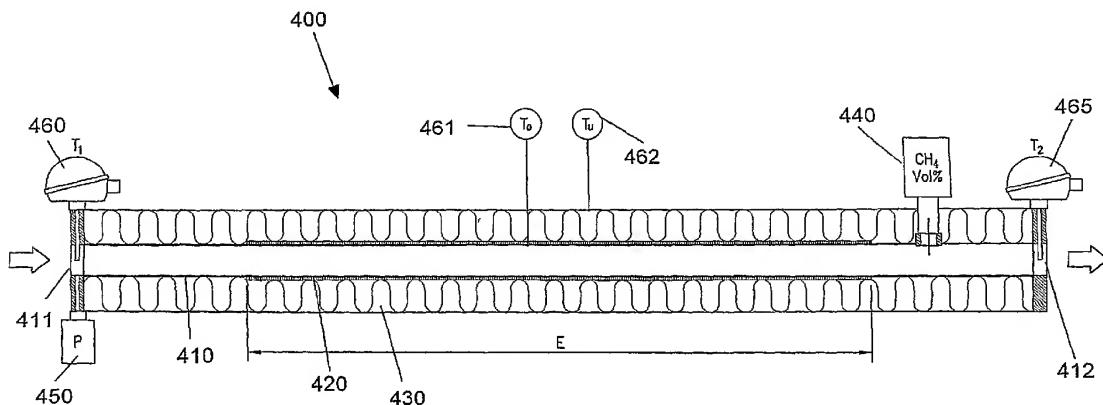
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: METHOD FOR MEASURING MASS FLOW OF A MULTI-COMPONENT GAS



(57) Abstract: This invention relates to a method of measuring mass flow of a first gas component in a gas consisting of one or more known gas components. Typically such methods assume that certain parameters were constant, such as the gas composition, pressure and/or temperature, and likewise the heat capacity, density, etc., of the gas were presumed to be such that they could be determined to have a constant value. However, it has been found that the determination of the mass flow is associated with a comparatively high degree of measurement uncertainty, when it is assumed that the parameters are constant. The core of the invention relies on this discovery and on a method wherein all of the gas parameters that are used in the determination of the mass flow of the first gas component and that may vary considerably as a function of the gas composition, pressure and/or temperature are determined continually.

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